Abstract

Carrier Recovery Means

The present invention relates to a carrier recovery means in particular in a channel decoding unit or a digital demodulating unit of a digital broadcasting receiver. The inventive carrier recovery means comprises at least first and second phase error detecting means (2, 4) in which the first phase error detecting means (2) generates a robust phase error signal based on a digital input signal. Said second phase error detecting means (4) receives said robust phase error signal and generates therefrom a frequency sensitive phase error signal which is representative for the frequency error or frequency offset between the frequency of the receiver and the frequency of the carrier of the received digital input signal. The frequency sensitive phase error signal is then used to reduce at least the frequency error with respect to the received digital input signal to enable locking of the receiver to the carrier of the digital signal.

(Fig. 1)

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